

Appendix table 4-33.

Federal funds for industrial R&D performance, by industry and size of company: 1997–99
(Millions of current dollars)

Industry ^a	NAICS code ^a	1997 ^b	1998 ^b	1999
Distribution by industry				
All industries	21–23, 31–33, 42, 44–81	23,928	24,164	22,535
Manufacturing	31–33	—	—	17,055
Food	311	0	0	0
Beverage and tobacco products	312	0	0	0
Textiles, apparel, and leather	313–16	0	0	0
Wood products	321	0	5	0
Paper, printing and support activities	322, 323	D	D	D
Petroleum and coal products	324	D	5	D
Chemicals	325	107	236	194
Basic chemicals	3251	19	143	98
Resin, synthetic rubber, fibers, and filament	3252	D	DD	
Pharmaceuticals and medicines	3254	D	D	D
Other chemicals	325 minus (3251–52, 3254)	D	D	D
Plastics and rubber products	326	4	0	0
Nonmetallic mineral products	327	2	D	D
Primary metals	331	238	D	12
Fabricated metal products	332	53	54	46
Machinery	333	141	D	399
Computer and electronic products	334	4,291	6,336	5,993
Computers and peripheral equipment	3341	D	D	D
Communications equipment	3342	180	518	206
Semiconductor and other electronic components	3344	D	59	77
Navigational, measuring, electromedical, and control instruments	3345	3,371	5,749	5,705
Other computer and electronic products	334 minus (3341–42, 3344–45)	6	D	D
Electrical equipment, appliances, and components	335	160	141	D
Transportation equipment	336	12,709	10,682	10,037
Motor vehicles, trailers, and parts	3361–63	D	D	D
Aerospace products and parts	3364	10,904	9,838	9,117
Other transportation equipment	336 minus (3361–64)	D	D	D
Furniture and related products	337	0	0	0
Miscellaneous manufacturing	339	10	D	26
Medical equipment and supplies	3391	10	D	D
Other miscellaneous manufacturing	339 minus 3391	0	0	D
Other manufacturing	31–33 minus (311–16, 321–27, 331–37, 339)	0	0	0
Small manufacturing companies ^a	31–33 (with fewer than 50 employees)	151	128	69
Nonmanufacturing	21–23, 42, 44–81	—	—	5,479
Mining, extraction, and support activities ..	21	D	D	D
Utilities	22	D	D	17
Construction	23	1	D	2
Trade	42, 44, 45	D	77	95
Transportation and warehousing	48, 49	D	0	0
Information	51	404	556	497
Publishing	511	47	67	49
Newspaper, periodical, book, and database	5111	0	0	0
Software	5112	47	67	49
Broadcasting and telecommunications ...	513	D	D	D
Radio and television broadcasting	5131	D	D	D
Telecommunications	5133	D	D	D
Other broadcasting and telecommunications	513 (minus 5131, 5133)	0	0	13

See explanatory notes, if any, and SOURCE at end of table.

Appendix table 4-33.

Federal funds for industrial R&D performance, by industry and size of company: 1997–99
 (Millions of current dollars)

Industry ^a	NAICS code	1997 ^b	1998 ^b	1999
Other information	51 minus (511, 513)	D	D	D
Finance, insurance, and real estate	52, 53	D	D	D
Professional, scientific, and technical services	54	3,620	4,728	4,615
Architectural, engineering, and related services	5413	1,058	1,775	1,177
Computer systems design and related services	5415	D	D	D
Scientific R&D services	5417	2,334	2,615	3,057
Other professional, scientific, and technical services	54 minus (5413, 5415, 5417)	D	D	D
Management of companies and enterprises	55	0	0	D
Health care services	621–23	4	32	10
Other nonmanufacturing	56, 61, 624, 71, 72, 81	42	29	D
Small nonmanufacturing companies ^a	21–23, 42, 44–81 (with fewer than 15 employees)	D	522	227
Number of employees		Distribution by size of company		
Total		23,928	24,164	22,535
5 to 25		468	638	611
25 to 49		283	466	368
50 to 99		431	581	603
100 to 249		572	1,186	674
250 to 499		456	565	485
500 to 999		376	363	591
1,000 to 4,999		540	620	896
5,000 to 9,999		612	536	2,194
10,000 to 24,999		913	955	397
25,000 or more		19,277	18,253	15,717

NAICS = North American Industry Classification System; — = Data not tabulated under NAICS code; D = Data have been withheld to avoid disclosing operations of individual companies

^aThe frame from which the statistical sample was selected was divided into two partitions based on total company employment. In the manufacturing sector, companies with 50 or more employees were included in the large company partition. In the nonmanufacturing sector, companies with 15 or more employees were included in the large company partition. Companies in the respective sectors with employment below these values but with at least five employees were included in the small company partition. The purpose of partitioning the sample this way was to reduce the variability in industry estimates largely attributed to the random year-to-year selection of small companies by industry and the high sampling weights that sometimes were assigned to them. Because of this, detailed industry statistics were possible only from the large company partition. Statistics from the small company partition are shown separately and are included in manufacturing, nonmanufacturing, and all industries totals.

^bThe totals for all industries are identical to corresponding totals previously published using the Standard Industrial Classification (SIC) system. Detail published using NAICS may not add to totals.

NOTES: Starting with the 1999 survey, estimates are based on NAICS. In prior years, estimates were based on the SIC system. For this table, companies in the 1997 and 1998 surveys were assigned NAICS industry codes based on their SIC industry codes. Consequently, the estimates for 1997 and 1998 in this table are not representative of the NAICS categories of industries in those years. They are included for comparison purposes only. R&D in this table is the industrial R&D performed within company facilities funded by the Federal Government. Excluded from this table are R&D not performed within the company (e.g., R&D contracted out to other organizations) and R&D not performed in the United States (e.g., R&D not performed on U.S. soil by foreign subsidiaries or other foreign organizations).

SOURCE: National Science Foundation, Division of Science Resources Studies (NSF/SRS), *Research and Development in Industry: 1999*, Early Release Tables (Arlington, VA, 2001)